CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

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JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/W.No.18/AA/CEMENT/2014-15 Date: 13.08.2014

TEST REPORT

CLIENT	:	**Asst. Executive Engineer,** Hebbal Sub Division, BBMP, Bangalore.
AGENCY	:	**M/s. Anand Associates,** Bangalore.
NAME OF THE WORK	:	Construction of Compound Wall of Adjoining at Ward Office to Air Quarters compound Wall in Ward No.18, BBMP, Bangalore.
REFERENCE	:	EE/H/AE/WO/94/2012-13 Dated: 08.07.2014
SAMPLE ID	:	Cement
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4)	29.50 %	-
2	a) Initial Setting Time	IS-4031 (Part -5)	160 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	485 Minutes	Not More than 600 Minutes
3	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm

Note:

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⇒ The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒ Any Query regarding the report must be reported within 30 days from the date of testing.

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Job No.: CTCE/BBMP/W.No.18/AA/SAND/2014-15 : 13.08.2014

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Hebbal Sub Division, BBMP, Bangalore.

Agency : **M/s. Anand Associates,** Bangalore.

Name of Work : Construction of Compound Wall of Adjoining at Ward Office to Air Quarters compound Wall in Ward No.18, BBMP, Bangalore.

Reference : EE/H/AE/WO/94/2012-13 Dated: 08.07.2014

Date of Testing : 13.08.2014

Material : Sand

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	85	8.50	8.50	91.5	90-100
2.36	112	11.20	19.70	80.3	75-100
1.18	215	21.50	41.20	58.8	55-90
600 Micron	236	23.60	64.80	35.2	35-59
300 Micron	165	16.50	81.30	18.7	8-30
150 Micron	138	13.80	95.10	4.9	0-10

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TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Hebbal Sub Division, BBMP, Bangalore.

Agency : **M/s. Anand Associates,** Bangalore.

Name of Work : Construction of Compound Wall of Adjoining at Ward Office to Air Quarters compound Wall in Ward No.18, BBMP, Bangalore.

Reference : EE/H/AE/WO/94/2012-13 Dated: 08.07.2014

Date of Testing : 13.08.2014

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **10000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	165	1.65	1.65	98.35	95-100
20	5740	57.40	59.05	40.95	30-70
10	2585	25.85	84.90	15.10	10-35
4.75	1230	12.30	97.20	2.80	0-5

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24.09.2014

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** Hebbal Sub Division, BBMP, Bangalore.
Agency	: **M/s. Anand Associates,** Bangalore.
Name of the work	: Construction of Compound Wall of Adjoining at Ward Office to Air Quarters compound Wall in Ward No.18, BBMP, Bangalore.
Reference	: EE/H/AE/WO/94/2012-13 Dated: 08.07.2014
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{15}
Compressive Strength as on	: 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	27.08.2014	24.09.2014	8.257	365.2	16.23
2	27.08.2014	24.09.2014	8.362	382.7	17.01
3	27.08.2014	24.09.2014	8.468	390.5	17.36

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